Jamie Maignan

Kyle Romm

Rohan Patel

Daniel Nazarian

Dr. Shankar

Home Quiz 2: Accelerometer

A Nexus 7 tablet was used by our group to run the Accelerometer program, which calculated the acceleration in three dimensions of our walk over a short amount of distance. I was walking in a straight line with minimal jerking and bouncing.

Shown below are our results:

At first, I walked at a steady pace without much jerking or bouncing so the graph stayed constant for

quite a while. The z-axis displays the gravitational acceleration, and it begins to fluctuate along with the

x and y axis at the 169th second because I began to vary my walking motion. The z-axis fluctuated quite a

large amount because I put a large bounce in my step so the gravitational acceleration varied. There was

no change in the x and y axis because no force was acting upon it until my motion began to change. The

z-axis was close to 9.81 m/s^2 because that is the acceleration of gravity.